

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/852,495ADATE: 09/01/98  
TIME: 13:03:15

INPUT SET: S28340.raw

p#29

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

## (1) General Information:

(i) APPLICANT: Ruddy, David A.  
Wolff, Roger K.(ii) TITLE OF INVENTION: POLYMORPHISMS IN THE REGION OF THE HUMAN  
HEMOCHROMATOSIS GENE

(iii) NUMBER OF SEQUENCES: 24

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Pennie & Edmonds, LLP  
(B) STREET: 1155 Avenue of the Americas  
(C) CITY: New York  
(D) STATE: NY  
(E) COUNTRY: USA  
(F) ZIP: 10036-2811

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: Windows  
(D) SOFTWARE: FastSEQ for Windows Version 2.0b

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/852,495  
(B) FILING DATE: 07-MAY-1997  
(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Poissant, Brian M  
(B) REGISTRATION NUMBER: 28,462  
(C) REFERENCE/DOCKET NUMBER: 8907-0057-999

## (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650-493-4935  
(B) TELEFAX: 650-493-5556  
(C) TELEX: 66141 PENNIE

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TECH CENTER 1600/2900

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/852,495ADATE: 09/01/98  
TIME: 13:03:16

INPUT SET: S28340.raw

47 (2) INFORMATION FOR SEQ ID NO:1:

48

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 235033 base pairs

51 (B) TYPE: nucleic acid

52 (C) STRANDEDNESS: single

53 (D) TOPOLOGY: linear

54

55

56

57

58

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60

61 CACACACACA CACACACACA CACACACACA CACACAAATG AGGTATATAA AGGGTCTCCT 60

62

63 AAAATGTCAT CTGATATTTG TTATTTTCATA TTCTCAGATT TTTAATCCAT TTAGGTAGGT 120

64

65 CTATTTTAGA TAGCCTTGTC TGAAACAGAG CTGGGACCTG ATGAGTGAAA ATGAGCTCAC 180

66

67 CAGAAGAAAA ATCAAACAGG CATTTTCAGAG ATTGAGGCCA AGAAGTTAAA TGTCTTAAAT 240

68

69 GGGCAGAGCT TAGCTGCTTG ATGTGAAAAG AGACCAGCGT GGCTGGAACA GCAAAGGAGA 300

70

71 ACAGCAGAAG AGGTGAACAG AGGCCAGAGA TGGTCACTGA GTGGGCCCTT AAGTCATGGT 360

72

73 AAGGAGTATG GAGAATGAAT TATTGCATGT ATTGAATATG TAGGTGACGT GACTCACAGA 420

74

75 TACTTTGGAT TTGTAGAGAT GAAGGAAATG TAGCAAGTGA CACTCTTAGA ATGTTGATTT 480

76

77 GAGTAAATGG TAGTGTCACT TATTGAACTG GGGAGAAGTGA GAAGGGATAA CAGGCTTAAG 540

78

79 GAGCACGTTT ATTCCTGTGT CTTGGAAGTG TTTAGGGTGA AAGACCTATT AGAGTTCTAA 600

80

81 ATGGAGATGT CAAGTGAAAA TGTGGCTACA CACATTTGCA TTTCAGAAAA AAGGTCAGGC 660

82

83 TGGAGATGTA AAATTGGAAG TTTACTGCAT ATAGATAGTC TTTGGAACCG TAGTATTGAT 720

84

85 GAAGCCATTA ATGAGACAGA ACAAAGACTA GGGACCAGAG CCAAGCTCCA AGTTTCTAAA 780

86

87 ATTTAGAGGA TAGTATAGTC TGGTCATTTT GAGGTGAATA CTTAATAACA GAACAATTTG 840

88

89 TTGAAGTGTA AATTTAGAGC CCTACACTTT TAGCTCTGAC TATTAACGAA TACAGGAAAG 900

90

91 AATGGATATG GTTATCTGCC TGGTGTCTGT GAAATAATTT AAGCCAGGAA GAGATCCTCA 960

92

93 CCAGAACTG ACTATGCTGG CAACTTGGAT CTTAGATTTT CAGCCTGCAG AATTGTTAGA 1020

94

95 AAATAAATGT CTATCGTTTA AGCCACCAGT CTGTAGTATT TTGTTATGGC AGTCCAAGCT 1080

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97 GACTAAGTTT TGGTACCCAG GCGTGGGATG CTGCAACAAC AAATACCTAA ACATGGGGAA 1140

98

99 GTGGCTTTGG AAATTGGTGA TGGGTAAAGG CTGGAAGAGT TTGAGGTTCA TACTAGAAAA 1200

**INPUT SET: S28340.raw**

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103	CTCAGAAAAGG	AAGAGAGCTG	GACAGAAAAGC	TTCCATTTTC	ATAGAACTT	AGATTTATAA	1320
104							
105	CGATCATGGA	TAGAATATTA	AATATGCTGG	TTAAAATATG	GACTTTAGGC	CAGGCGTGGT	1380
106							
107	GGCTCACGCC	TGTAATCTCA	GCACTTTGGG	AGGCTGAGGG	CACAGATCAC	GAGGTCGGGA	1440
108							
109	GTTTGAGACC	AGCCTGGCCA	ATATGGCGAA	ACCCTGTCTC	TACTAAAAAT	ACAAAAATTA	1500
110							
111	GCTGGGCATG	GTGATGTGCT	TCTGTGGTCC	CAGCTACTCG	GGAGGCTGAG	GCTGAAGAAT	1560
112							
113	CGCTTAAACC	CGGGGGGTGG	AGGTTGCAGT	GACCCAAGAT	CACACCACTG	CACTCCAGCC	1620
114							
115	TGGGATACAG	AGCAGGACTC	CACTCCCCCC	GCCACACACA	CACAAAAAAT	ATATATATAT	1680
116							
117	GGACATTAAA	GTCAACTCTT	GTGAGGTCTC	AGATGAAAAT	GAGGGACAGG	TTATTGGAAA	1740
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119	CTGTAGAAAT	CACTGTTCTT	GTTACAATGT	GTCAAGAACT	TGGCTGAATT	ACGCTGTAGT	1800
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121	GTTTACTGGA	AAGAACTTAT	AAGCAGTAAA	ACTGGATATT	TACCAGAAGA	GATGTCTAAG	1860
122							
123	CAAAGTATTG	AAGGTGTGAT	TTAGGTCCTC	CTTACTGCTT	AAAGTGAAAT	GTGAGAGGAA	1920
124							
125	AGAGCCGAAA	TAAAGAAGGA	ATTTTTTAAGC	AAAACACAAT	CAGAACTTGG	AGATTTGGGA	1980
126							
127	TAGATTTCTC	AATCTATATT	GTAAAAATTG	AGAAAGTTTT	TCTTGAAGAG	GTATGGTTGA	2040
128							
129	ACAATGTTTT	CTTTTTCTTT	TTTTTCTTG	GTTTTATTTT	TATTTTTATG	TTTTTTGAGA	2100
130							
131	CAGGGTCTGG	CTATGTCATC	CAGGCTGGAG	TGCAGTGGCA	CAATCTCAGT	TCAGTGCAAC	2160
132							
133	CTTTGCCTTC	AGGCTCAAGC	AATCCTCCCA	CCTCAGCCTC	CTAAGTAGCT	GGGACTACAT	2220
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135	GTATGCACCA	CCACACCCTG	GCTAATTTTT	TGTTGTTGTT	TATAGAGATG	GGGTTTTGAC	2280
136							
137	ATGTTGCCTA	GGCTGGTCTC	TAACCTCCTGA	GCTCAAGTGA	TCTGCCCTCC	TCAGTCTCCC	2340
138							
139	AAAGTGTG	GATTACAGGC	GTGAAACACT	GAGCCTAGCC	TGAACAACCA	TTTGATAAAG	2400
140							
141	AGATAATGGG	TGTGACCCAA	GGATTTAATC	AGCCATCTCA	GCAGAAGCCA	GGAAGAGAGA	2460
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143	TGGGATTATT	CCAGCAGAGA	CACTGCCAAT	TTAAACTAAC	GTAGGCAGAG	AAAACAGAAA	2520
144							
145	GGAACAAAGG	AAGGTTGTG	ACTTTTTTGAA	TTCTATAGAA	CAGGATCATA	GAGCTACCTG	2580
146							
147	GCTGTCAATG	TGTAATATTC	TTTAAGAAAA	GGAAAGACTG	ACCCACCAAA	GGCAACTTAC	2640
148							
149	AAGATCACTA	GGGCTGACTC	TTTTGTTTTT	TCTTGAGGCA	GTCTCACTGT	CACCCAGGCT	2700
150							
151	GTAGGGCAAT	GGTGTGATCT	CAGCTCACTG	CAATCTCCAC	CTCCCAGGTT	CAAGGGATTC	2760
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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/852,495ADATE: 09/01/98  
TIME: 13:03:18

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153	TCTTGCCTTA	GACTCCCAAG	TAGCTGGGAT	TACAGGCTCT	AAATCTGTAC	CCTCCCGAGT	2820
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156							
157	CTATGTTGGC	CAGGCTAGTT	TGGAACCTCT	GACCTCCAGT	GATCCATTCT	CATTGGCCTC	2940
158							
159	CCAAAGTGCT	GGGATTACAG	GCAGGAGCCG	CCAGGGCTGC	CACTTTGATG	TCAGACTCAG	3000
160							
161	AGAGTACAGA	TGGGATAGGG	TGGGGGTGGG	AACATGTAGT	CAAGGCTGAC	TCTACCTGTT	3060
162							
163	TCAAAGATGC	CCTGCAGAAC	TGTGTGGGAG	TCTCTCACAG	ATGGCTGCCT	GGGTGGGACC	3120
164							
165	CCACCAAAC	GAAAGACCGA	GACTTCAGGC	AGGGCAGATG	GAGTAGGCCA	ACTACAGAGC	3180
166							
167	CAGAGGTGAC	ACTGAGACAC	CACTGGGCCT	GGAAATCAGG	GCATCAAGCC	AAAGAGGGTT	3240
168							
169	TTTCTTAAGA	CCTAACAGAA	TTTGCCTTGC	CAGGTTTTGG	ACTTGATTAG	GACACATTAC	3300
170							
171	ACCTTCCTTC	TTTCCTATTT	CTCCATTTTC	TAATGGGAAT	GTCTATTATG	CCTGTTTCAC	3360
172							
173	CATTGTACCT	TAGAAGCATG	TAACATTTCT	GGTTTCACAC	GTTCAAAGCT	GGAAAGGAAT	3420
174							
175	TTTGTCTCTG	GATGAATCAC	ACATTGAGCC	TCACCCGTAA	CCTGATTTAG	ATGATTTTTT	3480
176							
177	AGATGACACT	TTGAACTTTA	GAATTGATGC	TAGAATGAGT	TAAGACTTTC	AGGGGGCTGT	3540
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179	TGGGATGGAA	TAATTTTTTT	TTTTTTTTTTG	AGACGGAGTC	TAGCTCTGTC	GCCCAGGCTG	3600
180							
181	GAGTGCAGTG	GCACCATCTT	GGCTCACTGC	AAGCTCTGCC	TCCCCGGTTT	ATGCCATTCT	3660
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183	CATGTCTCAG	CCTCCAGAGT	AGCTGGGACT	ACAGGCGCCC	GCCACCACGC	CTGGCTAATT	3720
184							
185	TTTTTTTTTAT	TTTAGTAGAG	ATGGGGTTTC	ACCGTGTTAG	CCAGAATGGT	CTCGATCTCT	3780
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187	TGACCTTCTG	ATCCGCCTGC	CTTGGCTTCC	CAAAGTGCTG	GGATTACACG	TGTGAGCCAC	3840
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189	CATGCCCCGC	TGGGATGGAA	TAAATTTATC	TTGTATGGGA	GAAGGACATA	CATTTTGGCA	3900
190							
191	GGTCAAGGAC	AGAATGTTAT	GGACTAAACT	GTGTCCCCCA	AAATTCATTT	ATTAATAACCC	3960
192							
193	TAAACCCAG	TGTGACTGCA	TTTGGACATA	GAGCCTTTAG	GGGTACATA	AAACTAAAGA	4020
194							
195	TCACAGGATA	GGGCCCTAAT	CCCATTGGGG	CTGGTGTCTT	TACAGAAGAT	GAGACACTTA	4080
196							
197	GAGCTCTCTC	TCCACGCAGG	CACCAAGGAA	ACACCATACA	AACACACAGT	GAGATGGCAG	4140
198							
199	CCATCTGTTA	GCCAGGAACA	GATTCTCACC	ATAAACTATG	TTGGCACCTT	GATCTTAAAC	4200
200							
201	TTCCAGGCTC	CAAACTGTG	AGAAAATGAA	TTTCTGTTCC	AAGCCTCTTA	GATATGGAAA	4260
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203	AAAAGATTCT	GTTGTTTAAG	CCATCCAGTC	TCTGGTATTT	TGTTATGGCA	GCCTGAGTAG	4320
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205	GCTAAGACAA	TGAAGGATGT	GGTAAACTT	TACGTCCCAA	CCACATACCA	AAGAGGCTGG	4380

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209	CATGTTGGCT	CCTTTACTCT	GCCCAAAC	CAACTCAAAC	AAACAAC	ACTGT	4500	
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211	CATCCAATGA	AGTTCTGACA	TTTCTTCAAC	ATGAGTACAG	TAATTCAATG	CCAGAGAATT	4560	
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213	CATTTTATTT	TGAAATCTAC	ATGCCATATT	CCAATTTCTG	TTGAAGATGC	AATGGTTATA	4620	
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215	TTTATTCTTT	TTAATATAGA	TTTATCAGAC	TGGGCGCGGT	GGCTCATACC	TGTAATCCTA	4680	
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225	AAATAAATAC	ATAAAATAGA	TTTATCAGTT	TATCAATAAT	ATAGTTTTCT	TTTCTAGGTG	4980	
226								
227	TAAATATAGG	TAATGACTGT	CCTTTAGTAC	ATTTTCTCAT	GATGCTCCTC	TTACTTGGTT	5040	
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231	TTCCATTTGC	TCATCTCCAA	TATGCACGGG	AAATTCTCAA	ATTGCTAATA	ATCTTGTAAC	5160	
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233	ACACATGCAT	TATATTCAAC	AGGAATATAT	AAATTTATAA	TTATAATTTA	GGATCAACAG	5220	
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235	ATGACAAACC	TTTAGAAGGT	TTGTATTTAA	CCTTAAAATA	TAATTTTTTTA	AAAATTGGTT	5280	
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237	ATAAAATTTT	TAATACTTTT	TTTTTTTGTA	CCTCAAGGGG	AAAATATAAT	TCTTATAAAA	5340	
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239	GTTCAAATGA	TTTACAGAAT	ACAAAAAGTG	AATAGAGATG	ATGAATGAAT	TAAAGGAAAG	5400	
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241	GATATTGCTA	CATAGATTTG	GAAATTTAAA	AAGGGAAATT	ACGATTGTTG	ATTTTGTGTT	5460	
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255	CGAGGAATGT	CCTTTGCTTA	GGGACTAGGC	TCTTAGCAGT	ACCTCTTAGG	TAAGAACTGG	5880	
256								
257	TTAACTGGCA	CCTTCTGTGT	TTCTCTGAAG	CTCCCTTTGC	TTAGGGACTA	GGCTCTTAGC	5940	
258								

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/852,495A**

DATE: 09/01/98  
TIME: 13:03:19

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Original Text